

Name: _____

Maths Genie Stage 1

Test B

Instructions

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out.**
- **Calculators may not be used.**



Information

- The marks for each question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end

1 Work out $20 - 2 \times 7$

.....
(Total for Question 1 is 1 mark)

2 Write down the value of $\sqrt{64}$

.....
(Total for Question 2 is 1 mark)

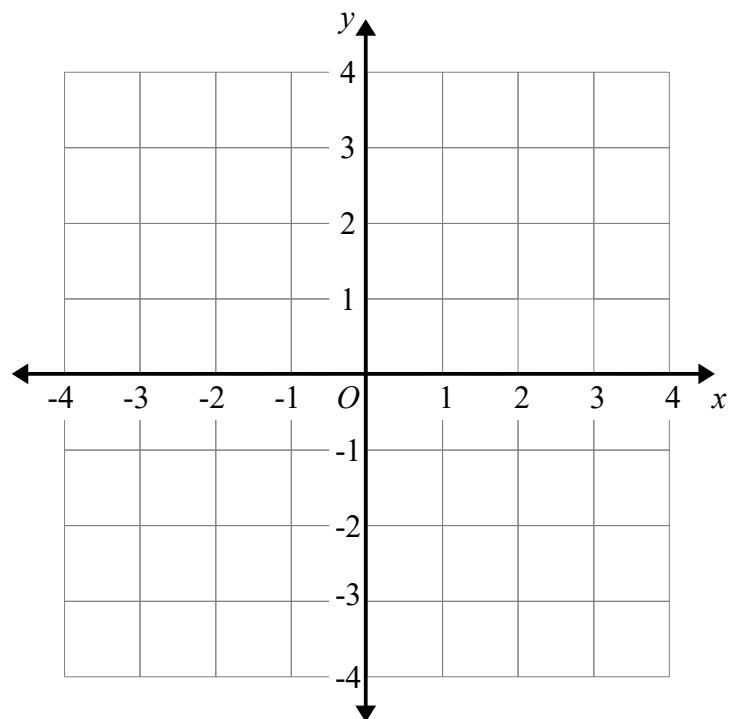
3 Here is a list of numbers

6 12 15 21 27 36 64 80

From the list, write down all the cube numbers.

.....
(Total for Question 3 is 1 mark)

4



(a) Plot the point with coordinates $(2, -3)$.
Label this point A .

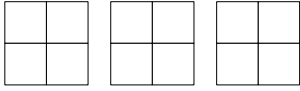
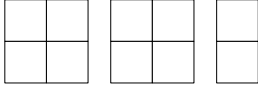
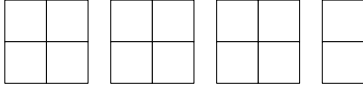
(1)


(b) On the grid, draw the line with equation $x = -2$

(1)

.....
(Total for Question 4 is 2 marks)

- 5 The pictogram shows information about the number of plants sold by a shop on Monday, Tuesday and Wednesday.

Monday	
Tuesday	
Wednesday	
Thursday	

Key:	
	Represents 4 plants

- (a) Write down the number of plants sold on Wednesday.

.....
(1)

9 plants were sold on Thursday.

- (b) Show this information on the pictogram.

(1)

- (c) What was the total number of books sold on these four days?

.....
(2)

(Total for Question 5 is 4 marks)

- 6** Write the following numbers in order of size.
Start with the smallest number.

206 187 211 171 182

.....
(Total for Question 6 is 1 mark)

- 7** Here is a list of numbers.

10 11 12 13 14 15 16 17 18 19

From the numbers on the list,

(a) write down a square number

(b) write down a multiple of 8

.....
(1)

(c) write down all of the prime numbers on the list.

.....
(1)

.....
(1)

(Total for Question 7 is 3 marks)

- 8** Natalie drives from London to Sheffield.

Natalie leaves London at 11.30 am.

Natalie drives for $2\frac{1}{4}$ hours before stopping for a break.

The break lasts for 25 minutes.

Natalie then takes another 75 minutes to reach Sheffield.

What time does Natalie arrive in Sheffield?

.....
(Total for Question 8 is 2 marks)

9 The table shows the temperature at midnight and midday on February 28th 2018 in four cities.

City	Midnight Temperature	Midday Temperature
Madrid	3 °C	11 °C
Munich	-11 °C	-7 °C
Budapest	-9 °C	-5 °C
Rome	-4 °C	6 °C

(a) Write down the name of the city with the lowest midnight temperature.

.....
(1)

(b) Which city had the greatest rise in temperature from midnight to midday?

.....
(1)

(c) At midnight, how many degrees colder was Rome than Madrid?

..... °C
(1)

(Total for Question 9 is 3 marks)

10 Write the following fractions in order of size.
Start with the smallest fraction.

$$\frac{1}{2} \quad \frac{3}{10} \quad \frac{2}{5} \quad \frac{1}{3} \quad \frac{7}{15}$$

.....
(Total for Question 10 is 2 marks)